

Self-organized growth of Pb/Si(111) at low temperatures

M. Hupalo, V. Yeh, L. Berbil-Bautista, M. C. Tringides

Goal: To grow atomic-scale structures of uniform size and geometry with control of their dimensions. Normally growth is either layer-by-layer or 3-dimensional, with single steps separating different levels Result: For Pb/Si(111) we have observed unexpectedly that islands of uniform height and similar geometry (ie. flat tops and steep edges) can be grown at low temperatures.





